

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

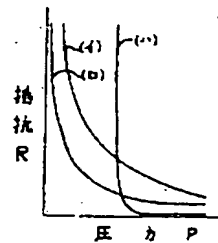
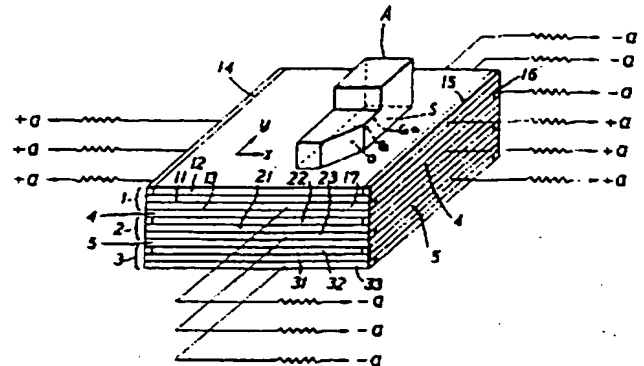
PUBLICATION NUMBER : 58017331
 PUBLICATION DATE : 01-02-83
 APPLICATION DATE : 22-07-81
 APPLICATION NUMBER : 56115474

APPLICANT : AGENCY OF IND SCIENCE &
 TECHNOL;

INVENTOR : SHIMOJO MAKOTO;

INT.CL. : G01L 5/00

TITLE : PRESSURE SENSOR FOR
 RECOGNITION OF OBJECT



ABSTRACT : PURPOSE: To provide an inexpensive sensor which has a simple structure, by a method wherein a detector is constituted such that each of flexible pressure-sensitive plates, whose resistances change in their respective modes according to a pressure, is positioned between the nip formed by two flexible conductive plates, and a plural number of the detectors is located such that one detector is placed over the other through the medium of a flexible insulating plate.

CONSTITUTION: A plural number of flexible pressure-sensitive plates, whose resistance changes in their respective different modes through application of a pressure, is prepared, and the both surfaces of each flexible pressure-sensitive plate are positioned between the nip formed by two flexible conductive plates, and this constitutes a plural number of pressure detectors. The pressure detectors are piled up such that the one is placed over the other through the medium of a flexible insulating plate. For example, both surfaces of each of pressure-sensitive plates 11, 21, and 31, consisting of conductive rubber having a resistance R varying with a pressure P as shown in a, b, and c, respectively, are positioned between the nip formed by flexible conductive plates 12 and 13, 22 and 23, and 32 and 33, respectively, electrodes 14, 15; 16, 17 are located at the end sides of the conductive plate, and pressure detectors 1-3 so constituted are piled up so that a detector 1 is placed over a detector 2 through the medium of a flexible insulating plate 4, and the detector 2 over a detector 3 through the medium of a plate 5.

COPYRIGHT: (C)1983, JPO&Japio

BEST AVAILABLE COPY